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A1
cond.

wherein said high energy and low energy permanent magnets are injected into said rotor in liquid form.

9. (Amended) The electric traction motor of Claim 1 wherein said high energy and low energy magnets include a polymer.

A2

10. (Amended) An electric traction motor comprising:

a housing;

a wound stator field located in said housing;

a rotor magnetically interacting with said wound stator field, said rotor including an

5 array of cavities;

a first magnetic material configured in a portion of said array of cavities;

a second magnetic material configured in a portion of said array of cavities; and

wherein said first magnetic material and said second magnetic material are injected into

said rotor in liquid form.

Add claims 17-21 as follows:

17. A method of fabricating an electric traction motor comprising:

providing a stator for the electric traction motor;

providing a rotor for the electric traction motor;

forming cavities in the rotor;

5 injecting high energy magnetic material in a portion of the cavities;

injecting low energy magnetic material in a portion of the cavities; and

postmagnetizing the magnetic material.

18. The method of Claim 17 further comprising bonding said high energy and low energy magnetic material with a plastic.

Inserting

Pre-mag. Part

335/294

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19. The method of Claim 17 further comprising energizing said high energy magnets with a magnetizing field of more than 2000 kA/m.

*A3
cond.*

5 20. An electric traction motor for a vehicle comprising:
a housing;
a wound stator field located in said housing;
a rotor magnetically interacting with said wound stator field,
high energy magnets configured in said rotor;
low energy magnets configured in said rotor; and
wherein said high energy and low energy permanent magnets are configured in multilayer form in said rotor.

21. The electric traction motor of Claim 20 wherein said multilayer form comprises layers of overlapping permanent magnets configured from the center of said rotor to the surface of said rotor.

REMARKS

This amendment is in response to the Office Action mailed on July 25, 2002, wherein Claims 1-7 and 10-14 were rejected and Claims 8 and 9 were indicated to include allowable subject matter. Claims 1, 9 and 10 have been amended; Claims 17-21 have been added; and Claims 1-14 and 17-21 remain pending.

Claim Rejections Under 35 U.S.C. § 112

On page 3 of the Office Action, Claims 2, 3 and 9 were rejected under 35 U.S.C. §112, second paragraph, as being indefinite. Applicants have deleted Claims 2 and 3 and amended Claim 9. Applicants respectfully submit that they have fully addressed the clarity rejections of the Examiner.

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Claim Rejections Under 35 U.S.C. §102 and 103

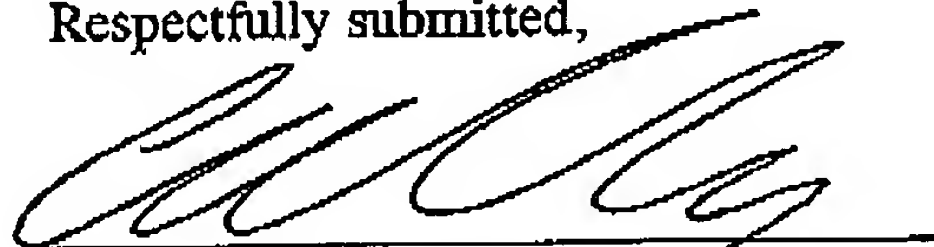
On page 4 of the Office Action, the Examiner rejected Claims 1-5, 7, 10, 11, 13 and 14 under 35 U.S.C. §102(b) as being anticipated by Narita. On page 4 of the Office Action, the Examiner rejected Claims 6 and 12 under 35 U.S.C. §103 as being unpatentable over Narita in view of Rhaman. Applicants have amended the claims to better describe the claimed invention. Claims 1 and 10 now include the subject matter of Claim 8. Claims 17-21 have been added.

Conclusion

The entire Office Action dated July 25, 2002 has been carefully reviewed, and this response is submitted as being fully responsive thereto. In view of the preceding remarks, Applicants respectfully submit that Claims 1-14 and 17-21 are in condition for allowance and respectfully request such action at the Examiner's earliest convenience. If the Examiner believes that personal contact would be advantageous to the disposition of this case, he is requested to call the undersigned at his earliest convenience.

If for some reason a fee needs to be paid, please charge Deposit Account No. 07-0960 for the fees which may be due.

Respectfully submitted,



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